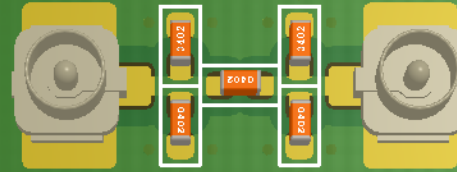


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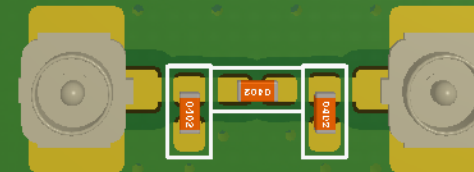
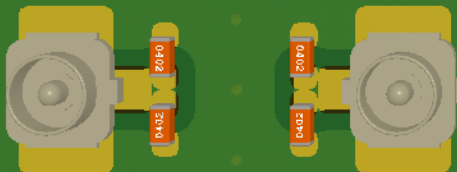
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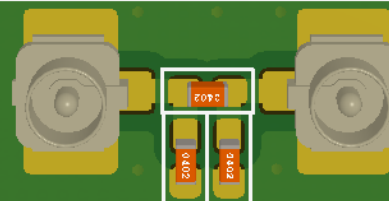
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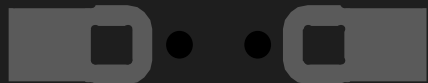


THROUGH

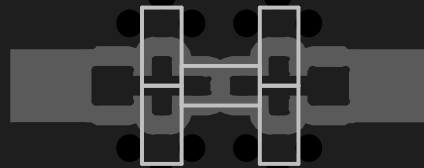


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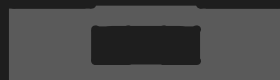
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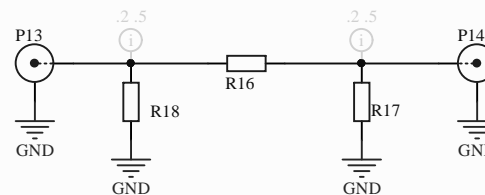
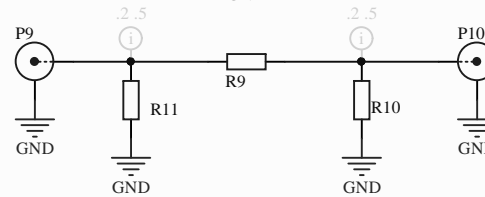
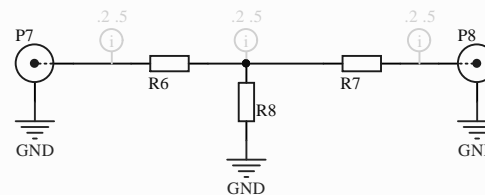
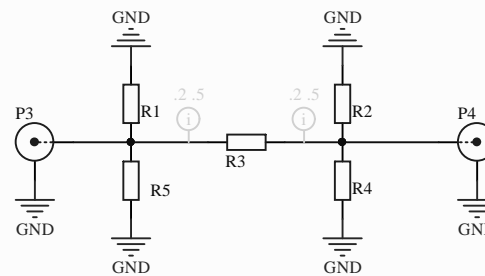
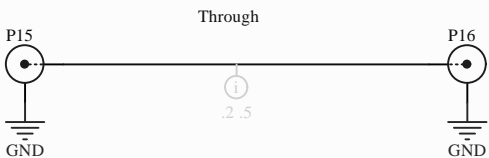
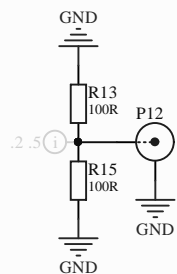
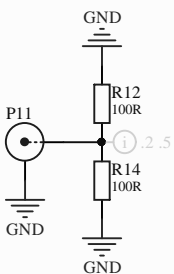
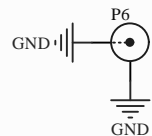
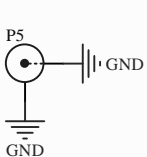
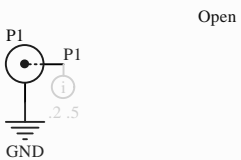
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For attenuator - $N = V_{in} / V_{out} = 10^{(X \text{ dB} / 20)}$
 Loss in dB is: $X \text{ dB} = 20 * \lg(V_{in}/V_{out}) = 20 \lg(N) = 10 \lg(P_{in}/P_{out})$

PI attenuator:
 $R1 = R2 = Z0 * [(N + 1) / (N - 1)]$
 $R3 = Z0 * [(N^2 - 1) / (2N)]$

T attenuator:
 $R4 = R5 = Z0 * [(N - 1) / (N + 1)]$
 $R6 = Z0 * [(2N) / (N^2 - 1)]$

Tip: 10x voltage attenuator = -20dB power loss

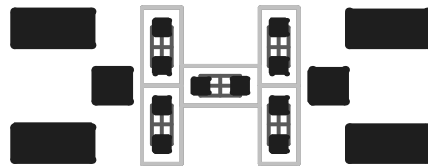
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U.FI.	U.FI.	P5, P6	U.FL-R-SMT- 1(10)	BNC	2
100R, 50 V, 0	100R, 50 V, 0	R12, R13, R14	C SMD ceram	Resistor	4

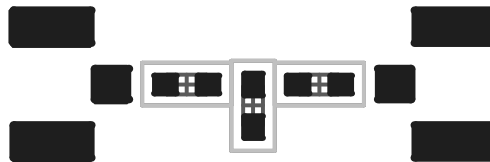
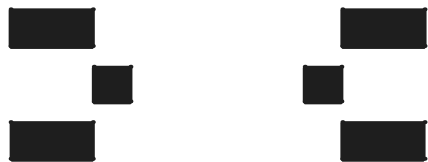
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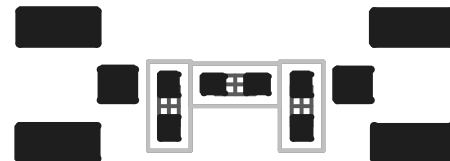
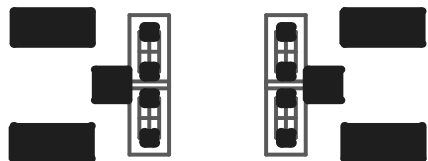
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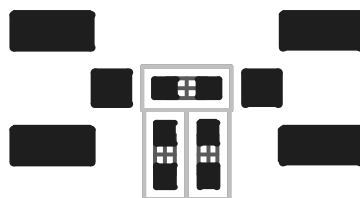
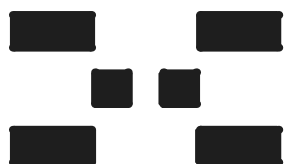
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